



OIIPE

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/029,120

TIME: 17:49:50

Input Set : N:\Crf3\RULE60\10029120.raw

Output Set: N:\CRF3\01172002\J029120.raw

#2

1 <110> APPLICANT: Swanson, Ronald V.
 2 Feldman, Robert A.
 3 Schleper, Christa
 4 <120> TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
 5 <130> FILE REFERENCE: DCORP.002A
 6 <140> CURRENT APPLICATION NUMBER: 10/029,120
 7 <141> CURRENT FILING DATE: 2001-12-21
 8 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020
 W--> 9 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29
 10 <160> NUMBER OF SEQ ID NOS: 123
 11 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 32998
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Cenarchaeum symbiosum
 17 <220> FEATURE:
 18 <221> NAME/KEY: CDS
 19 <222> LOCATION: (7604)...(8908)
 20 <221> NAME/KEY: CDS
 21 <222> LOCATION: (8961)...(9767)
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (10545)...(10922)
 24 <221> NAME/KEY: CDS
 25 <222> LOCATION: (13944)...(14612)
 26 <221> NAME/KEY: CDS
 27 <222> LOCATION: (18638)...(20149)
 28 <221> NAME/KEY: CDS
 29 <222> LOCATION: (20554)...(20955)
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (20956)...(21834)
 32 <221> NAME/KEY: CDS
 33 <222> LOCATION: (25151)...(26377)
 34 <221> NAME/KEY: CDS
 35 <222> LOCATION: (27535)...(28002)
 36 <221> NAME/KEY: CDS
 37 <222> LOCATION: (28065)...(29483)
 38 <400> SEQUENCE: 1
 39 gatccttgac ctctgcgctt attgcagcca tggactgacc ggccgtgcgg ggctaaataa 60
 40 agctgaggcg ccgcctgcag gctctgctca gccgttgatt atacagtact cgcactcgca 120
 41 ggtcttgctt tcgtcatctt ttgccctgca cttggcgtgc tggcccgaact ggcactggac 180
 42 gcagatctcg tctatgttgt ctatcgaggt gtactttttg gactgggtcaa agccgaagcc 240
 43 gccgtccttt ggtccaacca tgaagcggtc agggccgtta tgccttaatt atctttgccg 300
 44 tcggggcggg gccgcttctg ccggcgggag ccccccttga ggccgctccc cggctcgttg 360

ENTERED

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/029,120

TIME: 17:49:50

Input Set : N:\CrF3\RULE60\10029120.raw

Output Set: N:\CRF3\01172002\J029120.raw

45	tcccacaggt	gcattgctgcc	cctgatcata	aacgagccga	ctatgattgc	tacaagcccg	420
46	cccactatca	gtataaacag	cctagccacg	ccccccattc	tgcccatgcg	tgtaatatgc	480
47	tgcacctgta	aacaaacatt	gcgcggggca	tgggcccgtcc	ggacagacag	aactgcccac	540
48	gagacaggtg	cctgcggggc	ggtaagctac	attaatttat	cacccccac	gggcccggcc	600
49	catgagcagg	accaagagaa	taatcatctg	ggcatccata	ctgggcccggg	ggataatcta	660
50	ctttctcgtc	cagggcgaga	ttgccagaaa	tgtattgtcc	tgagaacaga	agccatgcag	720
51	caactgcccc	atcgtttttc	aggtaacctac	tgggcttttt	ggagtctcgtt	gatcaaaagc	780
52	ggtacaggta	ttctatacat	gccagtccttg	gctggaaaaa	taaattgaag	atcggcggat	840
53	cctatctacg	agcgcctgcc	tgtctttcac	ttgactagcc	ggagtacttc	gtctgcaatt	900
54	tctgtatagc	taggcattta	tgtagttgag	atacatgtcc	gcgggatccg	tttcatagtc	960
55	tgaatcaaac	accggatcat	tccttctctt	taattcctta	aatgcctgat	gcagttcaag	1020
56	caggacgggt	acatcatcgc	gtttgattat	ccgttctggt	gtttcagctt	tttgcctatt	1080
57	ctcatccatg	attataggct	acggtatttg	actaaaaagg	tttccatctt	catgagtcgt	1140
58	gtgtttgccc	tggaattacc	taccggggga	acataaaaaa	atgagtcata	aacagcgcac	1200
59	tgcatccacc	gtggaccacc	gagacaacga	gccggcagcg	gtgcacagca	ccgagtacaa	1260
60	ccccgcaatc	gtcttatcca	acgacctgcc	ctatgaaaac	tccagacgga	tctcttccgg	1320
61	gcatccagta	cccatgtatg	tgagaattct	gactatctta	ccgtgggtgtt	ggcagtgctt	1380
62	caacgacggt	attaacgagg	tgattcatga	taattttggt	gactggagta	tactgaaaca	1440
63	tggtatttgc	cgcattgaaat	actgacagca	ccagatcttg	aaattcttgt	tcatcttcca	1500
64	gatcagttac	ttttaagcca	atccttttac	attcttctct	cgatatgcgc	cttccatgac	1560
65	tgtgatattt	tttagaggaa	gacattattt	ctgatatttt	ttttgacttt	tttaccgctg	1620
66	cagactcggt	ctcaaaccatg	tatctagcca	gccatttttg	tacaagttcc	acacttagct	1680
67	tctggctgct	aatgcatttt	tgaattagcc	cgggaggata	ttgccctaac	agtgggaagcc	1740
68	atgcgccgag	cctccccggg	tgtttttctg	acaccgactg	tgcttcttga	aactcgctaa	1800
69	ttagaaactg	tgcagacatt	atgtgcatgc	cggtcctggt	tggaataata	aattgggggt	1860
70	cggtgggacc	tatcgatgag	tgtttaccca	ttaccaggca	attcgatgag	catgcaagca	1920
71	tgcagctgc	cgacatcgcg	gcataatggg	taatgatccg	gacattttta	aattttgcac	1980
72	gtatgtatga	gacgattgct	tccgttgga	cgacggagcc	ccccggactg	tggagtatta	2040
73	aatctaattt	cttagtcttt	aaatcacgca	tcatectcat	aaatccatac	aggtcaccat	2100
74	ttgttatgag	agcttcatta	gacgtatgcg	cttcgtccgt	tatccagttg	gtcgcataca	2160
75	gtattgtatc	cctccccgaa	tactgttgca	attttgaaag	atagtcgtga	agtactacac	2220
76	caggtgcctg	ctcaccgact	gactccatta	gtcgaagtac	gtcgtttgct	atttctgcgt	2280
77	aactaggcat	ttatgtagtt	gaaatgacta	cccgcgggaa	tcataaccata	gtctgtgtcg	2340
78	tatgacttgc	cttttttctt	catcaatttc	tcataattct	catgcagttc	gagcaggatg	2400
79	gccatgtcac	taogtttggt	cgtctgtttt	gttgctcggg	gcttttggtc	catattatta	2460
80	tccatgctag	taaaggacta	tgttccttta	aaaagggtcg	tgattttaat	ttccaagtgt	2520
81	ttgcctcgca	atttctctca	aggcacatga	aaaacggggc	acaggcagag	cacagcatcc	2580
82	gctggggacc	catgaaataa	gccccggcg	gtgcacagca	tccgctgggg	gtcgaataaa	2640
83	aaaatgagtc	atcatgcata	gtctctatgt	aaatggctga	accggtgttt	tggtcgatta	2700
84	gtaaaggctg	gctcaccact	cgccgaagct	tgtgggatac	accaccttcc	tatcaacgca	2760
85	gtcttctctt	gcgaaccttc	atccgaagaa	ggaatatctt	gtctcgggat	aggattcgtg	2820
86	cttagatgct	ttcagcaett	agcctagatg	gcttagctgc	ccggcctgcc	ctgtcggaca	2880
87	accggtagac	cagtggccac	gcctctctgt	tcctctcgta	ctaagagcga	cttccccca	2940
88	gatattcgcg	cttccatcag	gcagaggccg	acctgtctca	cgacggtcta	aaccagctc	3000
89	atgttccctt	ttaataggcg	agcagcctca	cccttgcccc	ctgctgcagg	accaggatag	3060
90	gaaaagccga	catcgaggta	ccaaaccgcg	gggtcgatag	gagctctcgc	ccgcgacgag	3120
91	cctgttatcc	ctggggtaat	ttttctgtca	cctccggggc	ccaatagtgg	gcacacgaag	3180
92	gatcgctaag	ccagactttc	gtctatgaat	tccgtgcgtt	tggaaatcca	ttcagtcctag	3240
93	tttttggtct	tgcctcttcc	agcggatttc	tgaccgcctt	gaactaaact	ttgggcccct	3300

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/029,120

TIME: 17:49:50

Input Set : N:\Cr3\RULE60\10029120.raw

Output Set: N:\CRF3\01172002\J029120.raw

94	ttgatattctt	ttcaaagggg	tgccgcccc	gccgaactgc	ccacctgcac	atgtccccgg	3360
95	tcttcaccgg	gtaagtggca	ctgcaggaaa	tgtctggtgt	tacatcggcg	tccctgcagc	3420
96	ttccaaagaa	cgccaggaaa	tgaactccag	atacgtatg	cactccctgc	tataccacaa	3480
97	gcacaagctg	cagtaaaact	ccacgggggc	ttctctcccc	gatggaagat	gatggactgt	3540
98	tcgtccacct	tatgtggctt	caccgggttg	taggcgggga	cagtggggct	ctcgttggtc	3600
99	cattcatgca	cgtcgggaact	taccggacaa	ggcatttggc	taccttaaga	gagtcagagt	3660
100	tactccccgg	gttaaccggg	ccttagctcg	gttgaaccca	agtttttagat	accggcacccg	3720
101	gccaggattc	agcgactata	catacccttt	cgggctagca	gtcgccctgtg	tttttattaa	3780
102	acagtcgaaa	cccccttgtc	actgcaacct	gctgcgcgca	ttcctcatga	cagctgcagg	3840
103	catcccttat	acctaaagcta	caggactaat	ttgccgaatt	ccctcgccat	acggtataacc	3900
104	cgtagcacct	tagtttacta	aaccagcgca	cctgtgtcgg	atctgggtac	gaacttgcag	3960
105	tttgctagcc	gcacggctct	tcatgggtct	ctggaatcgg	gaaaactctg	ctaaccgaaa	4020
106	gccactcccc	cctcgggcct	gttctcgtca	ttacgacact	cccaggccct	cgaacgggtc	4080
107	gacacgacga	cggtcatgtt	ccccctatcc	ggaagcgaac	catgcgggtc	aaacgctccc	4140
108	tgcaaggtag	cagaatatta	actgggttcc	cattcggact	actctgttga	ggcagtcctt	4200
109	aggatcgact	aactccaggc	tgacgacgca	ttgcctggaa	acccttgcgc	ttacgggtgt	4260
110	gcggtattct	accgcactat	gctgttactg	ccaccaggat	ctgcaataga	aatcgggtcca	4320
111	caggacgtca	cgccctgct	tcgtcccaat	cactacgcca	acctaccacg	gtgcacctat	4380
112	cacgggtgcac	gtctggagta	tcggtactct	gctttagccc	cgctcggtttt	tgtggcgccc	4440
113	tcgctcggca	ggtaagttgt	tacacacttt	ttgaaggata	gctacttctg	agcttacctc	4500
114	cctgctgtct	tgccgatgac	acgcactttg	gcttgacact	tagcagaaat	ttggggacct	4560
115	taactccagt	ctgggtttaa	ccccctcgg	tcgtgaacct	tacgtcacac	gaaccggtgt	4620
116	ccatgcttct	gcgatgtgta	tcctgtcgga	gtttgaatgg	atggtgagga	atctcttccc	4680
117	cgcgccaccc	tatcagtgct	ctaccggaaa	caccatctcc	acatagcacg	ccctgcgaga	4740
118	cgtctcgggt	ggaactagca	agcgccagtc	tagattgggt	tttgaccctt	attcccaagt	4800
119	cacacaaacg	agttgcacgt	cagaactgct	gcagacctcc	agtgggcttt	cgccacctt	4860
120	catcttgctc	aggaatagat	cgactggctt	ctagccttac	cgccatgact	taacgcactt	4920
121	tcacacgctt	ctcctcacaa	tgctgcgaga	attcggtttc	ccttcggcta	cgcctttcta	4980
122	ggcttaacct	cgccatgaca	gcaagctccc	tgcccggtgt	ttcgagacgg	aacgcagac	5040
123	actgacgaca	tgagctccgg	actttcagct	ccattgctgg	aacctccggt	ccgaaaaaat	5100
124	cgtctttcat	gccatgcacg	tcgtgaagca	ataggtttca	tgcaactttc	accccccttc	5160
125	cgggggtactt	ttcagctttc	cctcacggta	ctagtacact	atcggtcttg	agagatatatt	5220
126	agcctttgat	gctactttca	ccaatcttcg	ctgcccactg	ccaaggacaa	ctactcgggt	5280
127	gctggccctg	ccccattcca	cttcgtctag	gggggtatca	ccctctaagc	cggaacattt	5340
128	cagaacactt	caactatttc	ctggggccat	tgccgcgcac	caaaacacca	catctcggcc	5400
129	gcgttacgcg	ggcagattca	gtttgggctc	tttccttttc	gatcgctct	acttgggaaa	5460
130	totctattga	ttctctttcc	tcgtggtact	aagatgcttc	aattcccacg	gttcgacctc	5520
131	cgtttgcgcg	gagtatacag	gattcctatt	cggaaatctc	gggatcaacg	ggtgcgtgca	5580
132	cctaccccg	gcttatcgca	gcttgccacg	tccttcttct	ctcctcaagc	ctagcaatcc	5640
133	tcctattgcc	gtctttacac	cggcatattc	agccacatat	tacacgacta	tgcatgatga	5700
134	tcatcgcagt	ccccagggga	gggggcccgt	acatccttca	tacaccactt	gcgtgggtgca	5760
135	ttgcaccatg	caaagatcat	gtgcattctg	ttcaaaccag	tttctaagga	ggtgatccga	5820
136	cgcaggttc	ccctacggtc	accttggtac	gacttttccc	ttgtcgctta	cctcaagttc	5880
137	gataacgcc	attagacgtc	acctcactaa	aagcaaaact	caatgaaacg	acgggcccgtg	5940
138	tgtgcaagga	gcaggacgt	attcactgcg	cggtaatgac	gcgcgggttac	tagggattcc	6000
139	agattcgtga	gggcgagttg	cagccctcag	tcataactgt	ggtagcgttt	ggggattacc	6060
140	tcctcctttc	ggatatggaa	cccattgtca	ctaccattgc	agcccgcgtg	tggccccaga	6120
141	gtttcggggc	atactgacct	gccgtggccc	tttccttccc	ccgcattaac	tgccggcggtc	6180
142	ccgctaattc	gccccactgc	tcgggagagc	aatggtggca	actagaggca	aggatctcgc	6240

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/029,120

DATE: 01/17/2002

TIME: 17:49:50

Input Set : N:\Crif3\RULE60\10029120.raw

Output Set: N:\CRF3\01172002\J029120.raw

143	tcgttacctg	acttaacagg	acatctcacg	gcacgagctg	gcgacggcca	tgcaccacct	6300
144	ctcagcttgt	ctggtagagt	cttcagcttg	accttcacac	tgctgtctct	ccgggtaaga	6360
145	tttctggcgt	tgactccaat	tgaaccgcag	gcttcacccc	ttgtgggtgt	cccccgccaa	6420
146	ttcctttaag	tatcatactt	gcgtacgtac	ttcccaggcg	gcaaacttaa	cggtctccct	6480
147	gcggcactgc	actggctctt	acgccaatgc	atcaactgag	ttgcattggt	tacagctggg	6540
148	actaccggg	tatctaatac	ggtttgctcc	cccagctttc	atccctcacc	gtcggacgtg	6600
149	ttctagtaga	ccgccttcgc	cacagggggg	catcgataga	tcagaggatt	ttacccttc	6660
150	ctaccgagta	ccgtctacct	ctcccactcc	ctagccgtgc	agtatttccg	gcagcctatg	6720
151	cgttgagcgc	atagatttaa	ccgaaaaact	acacggcagg	ctacggatgc	tttagggcca	6780
152	ataatcctcc	tgaccacttg	aggtgctggg	tttaccgcgg	cggtctgacac	cagaacttgc	6840
153	ccacccctta	ttcgccggtg	gttttaagac	cggtaaaaga	tttcttttag	agaaaacact	6900
154	cggattaacc	ttgtcgtgct	ttcgacacatt	gcaaagtgtt	ctcgctgtgt	gcgccccata	6960
155	gggcctgggt	ccgtgtctca	gtacccatct	ccgggcctct	cctctcagag	cccgtatctg	7020
156	ttatagcctt	ggtgggcat	tacctacca	acaagctgat	agaccgcagt	cccatctac	7080
157	ggcgataaat	catttgggcc	acaaaccatt	ccaggcatag	tggcctatcg	gatattatct	7140
158	tcagtttccc	gaggttatcc	ccgtccatag	gttagattga	ctacgtgtta	ctgagccgtc	7200
159	tgccctgtat	tgctacaatg	actcgcatgg	cttagtatca	atccgatagc	agtcaggtcc	7260
160	ggcaggatca	accggattca	taattggatt	attttttttt	tgtaagtac	gcttgacttt	7320
161	ttggaattga	acagaatgca	cataatcttc	acatctcaga	tatgaccctt	cgatcatacc	7380
162	ctcattctgt	gtgcgtaact	ggaggccagc	gaatcacaat	atggtacaat	accatgcatt	7440
163	catcgcaagc	gccgctcttg	cgtcacgtac	gatcggtatc	gcccgctccat	gggcatataa	7500
164	accatcgccg	atttccgccc	ccggcagccc	cgatcagggg	ccggatctgc	ctgtatgatg	7560
165	gcgatccgcc	ctgattaaat	tatgggggga	gcggcctgct	gccgtggatc	tggaacgcga	7620
166	gtacagggca	aagaccggcg	gctcgggccc	gatctttgcc	aggtcgaaaa	agtaccacgt	7680
167	cggcggggtc	agccacaaca	taaggttcta	cgagccgtat	ccgtttgtga	caaggtccgc	7740
168	gagcggaag	cacctcgctg	acgtggaagg	gaacaagtat	gtagactact	ggatggggca	7800
169	ctggagcctg	atactggggc	acgcgcggcg	gccagtcagg	tcggcagtag	aggggcagct	7860
170	tcgcccggcg	tggtaccacg	ggaccgtcaa	cgagcagacg	atgaatctct	cggagataat	7920
171	acgcggcgcg	gtaagcgtgg	cagaaaagac	aaggtacgtc	acgtcgggga	cggaggccgt	7980
172	catgtctcgc	gcaaggctgg	cgcgcgcgca	tacgggcaga	aaaataatag	caaaggcgga	8040
173	cggcggtctg	cacgggtacg	cgtcggggct	gctcaagtgc	gtcaactggc	cgtatgatgt	8100
174	gcccagagag	ggggggctcg	tcgacgaaga	gcactctata	tccattccgt	acaacgatct	8160
175	tgaaggttcc	ctggatgttc	ttgggcgcgc	aggcgacgac	ttggcatgcg	tgataatcga	8220
176	gccgtgctgc	ggcggcggcg	gctgcatacc	ggcggtatgag	gactatctgc	gcggcataca	8280
177	ggagtttgtg	cattcaaggg	gcgcgtgct	tgtcctcgac	gagatagtga	cagggttccg	8340
178	gttttaggtt	ggctgcgcgt	atgctgcagc	agggctggac	cccgatatag	tggcgctcgg	8400
179	caagatagtc	gggggcggat	tccccatagg	ggtgatatgc	ggcaaggacg	aggtgatgga	8460
180	aatctccaac	actatatcgc	atgcaaagtc	cgacaggcg	tacatcggcg	gcggcacatt	8520
181	ctctgcaaac	cccgccacga	tgacagcggg	cgcggcagcg	ctcggggagc	tcaaaaagag	8580
182	aaagggcaca	atatacccg	ggataaactc	catgggggac	gacgcaagg	acaagctctc	8640
183	aaagatattt	gggaacagg	tatccgtgac	cggaaggggc	tcgctgttca	tgactcactt	8700
184	tgttcaagat	ggcgccggca	gggtctcaaa	tgctgcagat	gcggcagcct	gcgatgttga	8760
185	gctgctgcac	aggtaccacc	tggacatgat	caccggggac	ggcatattct	ttctgccggg	8820
186	caagctgggg	gccatatcgg	cggcgcactc	aaaggccgac	ctcaagacca	tgtattccgc	8880
187	atcagagcgc	tttgcagaag	gcctatgagg	tatagcgccg	gaggaaactt	tgattatacg	8940
188	ggcgtgctgc	cccggggccc	atgatactct	tcggcaagag	cgaccccgcc	gagctggtgc	9000
189	gccaggcgga	cctcctgtgc	agcaagaacc	agttcagggc	ggcaataggc	ctgtacggga	9060
190	aaatcctcaa	ggacgacccg	cagaacagg	gcgtcctgca	caaaaagggg	ctggcccaga	9120
191	acagggcaaa	aaagtactct	gatgcgatca	cgtgctttga	ccggctgctc	gagcttgaca	9180

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/029,120

DATE: 01/17/2002

TIME: 17:49:50

Input Set : N:\Cr3\RULE60\10029120.raw

Output Set: N:\CRF3\01172002\J029120.raw

192	acaaggacgc	gccccggtac	aacaacaagg	ccatagccca	ggccgagctc	ggagacacgg	9240
193	catccgcgct	ggaaaactac	ggcaggccca	tcgaggccga	cccgcggtac	gcgccggcgc	9300
194	gcttcaacag	ggccgtgctg	ctcgacaggc	tgggcgagca	tgaggaggcg	ctgccggacc	9360
195	tcgacagggc	agccgagctg	gaccgacgca	agccgaaccc	gaggttctac	aaggggatag	9420
196	tgctcgcaaa	gatgggcagg	cacgaagagg	cgctggcctg	cttcaagggc	gtgtgcaaga	9480
197	ggcatcccgg	ccacgccgac	tcacagttcc	acgtggggat	agagcttacc	gagcttggca	9540
198	ggcacgccga	ggccctcggg	gagcttgcac	cactgcccgc	ggagcaccgc	gagaacgcca	9600
199	atgtattgta	tgccagggcg	cgcagcctct	cgggccttgg	cagggaggac	gaatccatag	9660
200	cgcacctgca	aaaggcggcc	aaaaaagatt	ccaagacgat	aaaaaagtgg	gcccgcgcag	9720
201	aaaaggcctt	tgacggaata	cgggacgac	ccggttcaaa	aagatagccg	gctagaggat	9780
202	cttttttctt	gcccgcgtcaa	tccgcatcat	gcggaccttt	tttttgggcc	ccacaagtgc	9840
203	cgattcatag	actggtacat	agaccacctc	caccgccttt	gcggcaaact	cctcccgcag	9900
204	gtcgcgcatg	ccgtcaggcg	ggggcccgcg	cagcttctct	tttagttttg	agagcgccct	9960
205	ttctgtctcc	acctcggggc	tccgcacatt	ctctgacgca	tcgagtatcc	tccgcgggta	10020
206	cggctccacc	gcgcggggcc	ccgtcttgta	gggaaagtcc	gtctcgccgc	cgtgcgggtc	10080
207	aaggcacatc	atcccttctg	attccgcaaa	gacatgctct	tctagctcga	ggtcgaccct	10140
208	gttcttgccg	agccctgccc	agagcgtctt	gtgtatgcgc	gacttggacc	ttatgggaaa	10200
209	gacgcgctcg	cctagcacca	cctcgatcac	gttctggctc	accttgatcg	ggtgaaccgc	10260
210	ctttctgaaa	aaatccgcag	agtacctggc	ggagaccocg	atcagcgccct	cgtaggaccag	10320
211	ctttacagaa	tgcacatgga	cgtcttcttt	ccgcggggcc	ctcataaggg	ccctaaaggc	10380
212	accggtcttc	tttgccctcta	tcatggcccc	agccgactcc	tcagtcatgg	cgttccgcag	10440
213	gaccgccgtc	ctgggtctttc	cagtcacccc	ctgccgcacc	ccgcataagg	catactatac	10500
214	aacgcaaggc	aaggtaataa	tagcctgccc	tctgtaacgg	ccgtatgagg	tcggagggca	10560
215	ggcccggata	catcgaaaag	ttcctaaaga	gggcggacaa	ggcgatagac	aatgcagtcg	10620
216	agcagggcgt	caagagggca	gacgagatac	tagatgacgc	agtcgagctc	ggcaagatca	10680
217	ccgtgggcga	ggcgcaaaaa	agaagcgatg	tgctgctcaa	gcaggccgag	cgggagagca	10740
218	agcggctcaa	gtcaaggggc	gccaaaaagc	tcgaaaaggg	catagggcg	gcaaaaaaga	10800
219	tggcagccgg	caagggcgac	gcgctagaga	ccctggcaaa	gctcggcgag	ctgagaaagg	10860
220	gggggatcat	aacggagaag	gagtttcgcg	ccaagaaaaa	gaagcttctc	gcggagatct	10920
221	gacttgaagc	cgctagacta	taccggggac	ggctcgataa	aggaggtcac	aaagaggtgg	10980
222	tttataggca	cgcgcgtccct	tgctgacctt	gcaggcgagc	tcggcatatc	tgagagcaac	11040
223	atattccacg	tgacatttcc	cgacggcgca	aagaccaccc	tgcatacgca	cgagggcggg	11100
224	cagctgctca	tagtgacctc	gggcaccggc	agcatgtcaa	tatttgaaaa	gaccggcgga	11160
225	ggcgaggcgg	aatttgcaat	aaaagagaca	gacaggatac	cgctaaagca	gggcagcatc	11220
226	cagtacatac	ctgcggcggt	gctcacgtgc	acggcgcaac	agacggcacc	accctgtccc	11280
227	atatacggtg	aaactacccg	tcgccatcgg	gaaaggagcc	gtatacatta	tggtatgaat	11340
228	ccgactttgc	cagccgggtc	accggcggtc	tgtaaattat	attatttgag	cctctccagt	11400
229	atcgacaggc	ttacaagggt	ggtcatcggt	atcccccttg	ggatcacttc	ccttctagtc	11460
230	ttttcgcagt	acttggtgac	gctctggtgg	ctcttttcgc	tggtaccttc	gagcaccaca	11520
231	atgttcccgc	tgtaacggga	ggcaaacctt	ggcggaatcc	tcgagcatac	atccatgcgc	11580
232	cctattcccg	ccctgocctat	cttctccttt	cttgccacta	ccgacgccac	ctcgcgtatg	11640
233	tcctcctcgg	aatctccgta	ttccagatag	tacatggata	catagctcat	cccgggggat	11700
234	tccttttcga	atatctcctc	gtccatgctg	aataaatagg	aagggccgcc	cccgcggccc	11760
235	tcacccgcct	ttatcatttt	ggggccggtt	ttgaaccttg	ccagcaggta	gtggctggcc	11820
236	tgctgctcaa	agtaacggctt	gcttttggtg	gagaaagtgg	cggtcacaaa	gtacatctcg	11880
237	cctacgttcc	tcgacgagga	ccattcctcc	ttgagctcta	tcgaggcgat	gtcgtgcgtg	11940
238	tatggcgctg	aggcatatcc	ccccggggag	gcctccgtct	tgacatgca	tgggatccgc	12000
239	ggaaccggtt	aatatctagt	tccatgccgc	cttggggggc	gggggccccg	cctgtggccg	12060
240	gccccggggc	aggcgtgcgt	ggatccatgc	gatagttatt	taaaactagg	atgccgatca	12120

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/029,120

DATE: 01/17/2002

TIME: 17:49:51

Input Set : N:\Crf3\RULE60\10029120.raw

Output Set: N:\CRF3\01172002\J029120.raw

L:9 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD . .
L:7288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120